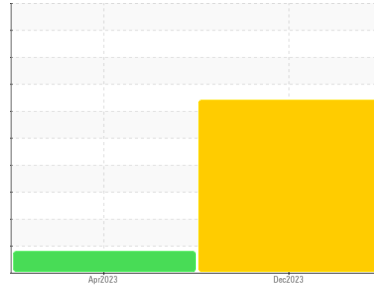


FUEL REPORT

Sample Rating Trend

ISO



Area
[450225536]
Machine Id
TB-80101
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you filter this fluid before use. Resample in 30-45 days to monitor this situation.

Corrosion

(not applicable)

Contaminants

There is a high amount of particulates (2 to 100 microns in size) present in the fuel. The water content is negligible.

Fuel Condition

The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC	PC	---
Sample Date	Client Info			06 Dec 2023	05 Apr 2023	---
Machine Age	hrs	Client Info		0	0	---
Sample Status				SEVERE	ATTENTION	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.847	0.843	---
Fuel Color	text	Visual Screen*	Yllow	Yllow	Yllow	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.9	2.7	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	62	63.1	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	40	43	---

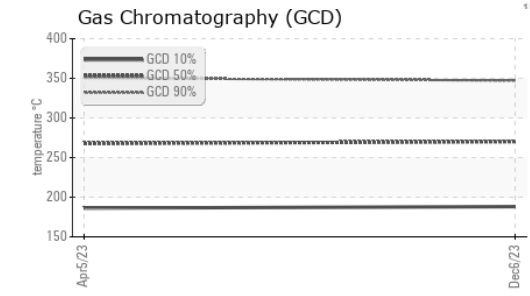
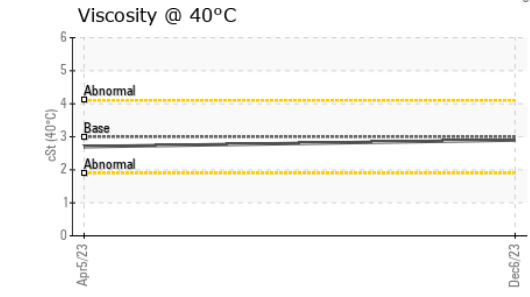
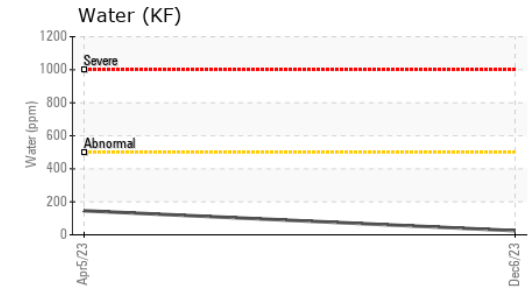
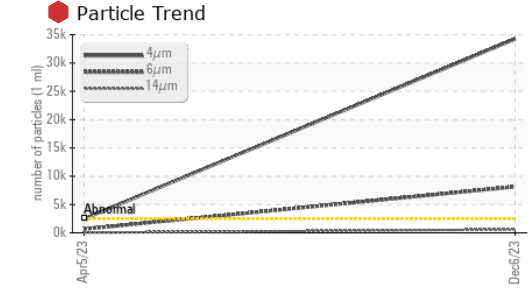
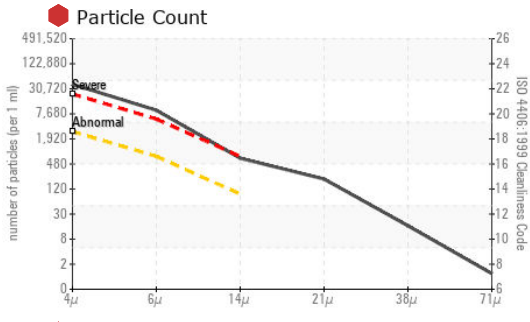
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	174	175	---
5% Distillation Point	°C	ASTM D2887*		199	198	---
10% Distill Point	°C	ASTM D2887*	201	211	209	---
15% Distillation Point	°C	ASTM D2887*		219	217	---
20% Distill Point	°C	ASTM D2887*	216	227	225	---
30% Distill Point	°C	ASTM D2887*	230	242	239	---
40% Distill Point	°C	ASTM D2887*	243	254	252	---
50% Distill Point	°C	ASTM D2887*	255	267	265	---
60% Distill Point	°C	ASTM D2887*	267	279	278	---
70% Distill Point	°C	ASTM D2887*	280	292	292	---
80% Distill Point	°C	ASTM D2887*	295	306	308	---
85% Distillation Point	°C	ASTM D2887*		317	319	---
90% Distill Point	°C	ASTM D2887*	310	327	331	---
95% Distillation Point	°C	ASTM D2887*		344	350	---
Final Boiling Point	°C	ASTM D2887*	341	356	377	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	35	36	---
Cetane Index		ASTM D4737*	<40.0	47	48	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	---
Sodium	ppm	ASTM D5185(m)	<0.1	0	<1	---
Potassium	ppm	ASTM D5185(m)	<0.1	<1	0	---
Water	%	ASTM D6304*	<0.05	0.002	0.014	---
ppm Water	ppm	ASTM D6304*	<500	25	145.9	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	34239	2461	---
Particles >6µm		ASTM D7647	>640	8151	660	---
Particles >14µm		ASTM D7647	>80	579	23	---
Particles >21µm		ASTM D7647	>20	184	3	---
Particles >38µm		ASTM D7647	>4	14	0	---
Particles >71µm		ASTM D7647	>3	1	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	22/20/16	18/17/12	---

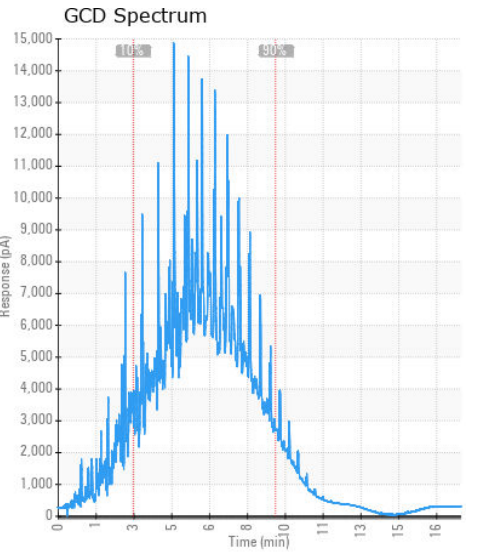
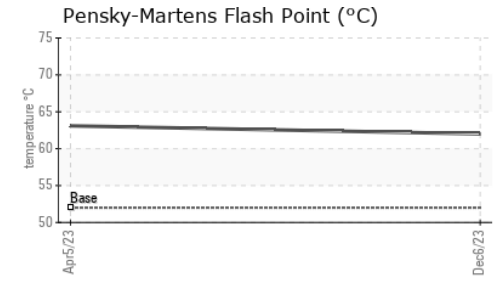
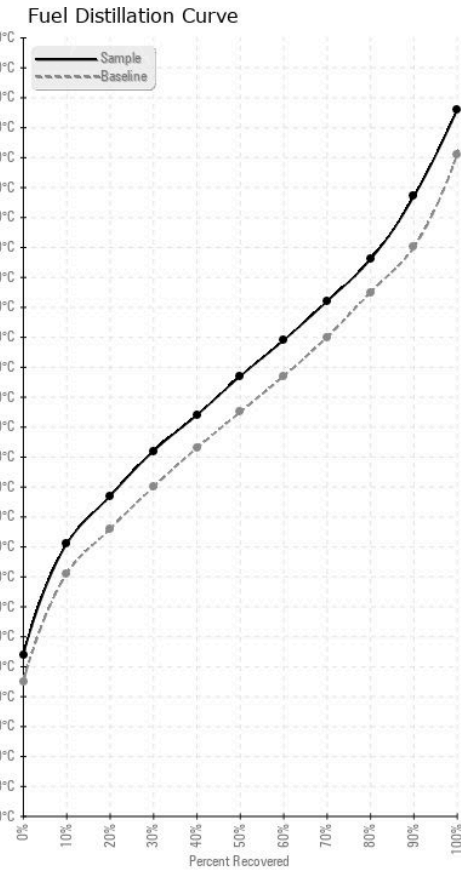
FUEL REPORT



HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	0	0	---
Magnesium	ppm	ASTM D5185(m)	<0.1	0	0	---
Phosphorus	ppm	ASTM D5185(m)	<0.1	0	<1	---
Zinc	ppm	ASTM D5185(m)	<0.1	0	<1	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02601728
Unique Number : 5694813
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)

Suncor - Terra Nova Projects
 Scotia Centre, 235 Water Street
 St. John's, NL
 CA A1C 1B6
 Contact: Deanne Badcock
 dbadcock@suncor.com
 T: (709)778-3843
 F: (709)724-2784

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.